Subject: Biology SL + HL				
Periods per week	5			
Teacher	Howard Chang			
Textbook/Teaching Materials	• Campbell Biology Concepts and Connections (2022, Pearson) • Teaching science in elementary and middle school_ a project-based learning approach (2018) • My IB Website – https://internationalbaccalaureate.force.com/ibportal • Inthinking (Biology) -https://www.thinkib.net/biology • https://openstax.org/books/biology-2e/pages/1-introduction • https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/			
Formative assessment	• Worksheet、Spelling game、Padlet、Quizelet、google form、Group presentation • Paper-pencil Quizzes • Boardworks			
Midterm Assessments (50%)	Paper and pencil test (Paper 1 and Paper 2)			
Final Assessment (50%)	Paper and pencil test (Paper 1 and Paper 2)			
Week	**Dates**	**Teaching Unit**	**Assessment**	**Notes**
1	**8/30-9/2**	4.1 Species, communities and ecosystems 7.1 DNA structure and replication	Worksheet	8/30 School starts
2	**9/5-9/9**	4.2 Energy flow 7.2 Transcription and gene expression	Group presentation	9/9 Holiday
3	**9/12-9/16**	4.3 Carbon cycling 7.2 Transcription and gene expression		
4	**9/19-9/23**	4.4 Climate change 7.3 Translation		
5	**9/26-9/30**	4.4 Climate change 7.3 Translation	Group presentation	
6	**10/3-10/7**	5.1 Evidence for evolution 5.2 Natural selection 10.1 Meiosis		
7	**10/10-10/14**	5.3 Classification of biodiversity 10.2 Inheritance		10/10 Holiday 10/11-13/ First Midterm
8	**10/17-10/21**	5.4 Cladistics 10.2 Inheritance	Worksheet	
9	**10/24-10/28**	10.3 Gene pools and speciation		
10	**10/31-11/4**	10.3 Gene pools and speciation	Worksheet	
11	**11/7-11/11**	**First Summative Assessment**	•Paper-pencil Exam (Paper 1 and Paper 2)	

12	**11/14-11/18**	6.1 Digestion and absorption 11.1 Antibody production and vaccination		
13	**11/21-11/25**	6.6 Hormones, homeostasis and reproduction 11.2 Movement		
14	**11/28-12/2**	6.2 The blood system 11.3 The kidney and osmoregulation		11/28 Progress Report Issuance
15	**12/5-12/9**	6.3 Defence against infectious disease s 11.3 The kidney and osmoregulation	Worksheet	11/21-23 Second Midterm 11/25 Midterm Grade Deadline
16	**12/12-12/16**	6.4 Gas exchange 11.4 Sexual reproduction		
17	**12/19-12/23**	6.5 Neurons and synapse 11.4 Sexual reproduction		
18	**12/26-12/30**	Option A	Worksheet	
19	**1/2-1/6**	**Second Summative Assessment**	•Paper-pencil Exam (Paper 1 and Paper 2)	
20	**1/9-1/13**	Practical Review		
21	**1/16-1/19**	Practical Review		1/17-19 Final Exam 1/19 Closing Ceremony 1/17 Tern Grade And Comments Deadline